



# CALIFORNIA

## Agricultural Bulletin

**EDD** Employment  
Development  
Department  
State of California

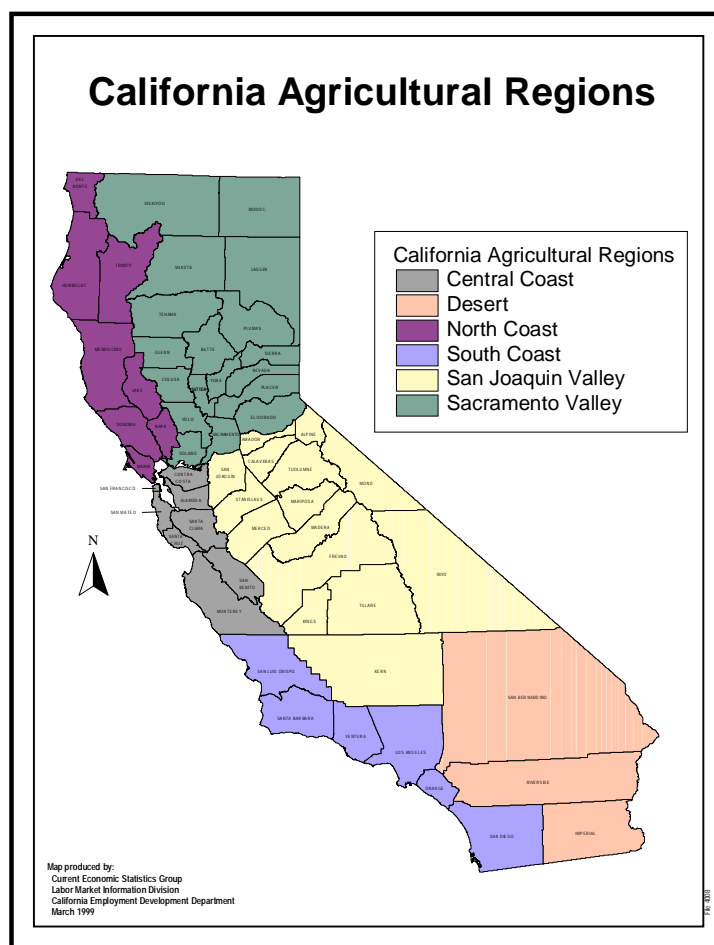
January 1999

### Agricultural Overview

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This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

**LMID**  
Labor Market Information Division  
"Your Information Source"

## Introduction

The January 1999 issue is the first California Agricultural Bulletin produced since December 1996. Prior to January 1997, the U.S. Department of Agriculture (USDA) and the Employment Development Department (EDD) conducted separate, overlapping agricultural labor surveys. As the result of a collaborative effort between the two agencies, in January 1997 this duplication and additional reporting burden on employers was eliminated. In addition, once during the year, agricultural employers who are selected for the sample are sent a supplemental survey that USDA uses in lieu of other surveys to assess other agricultural activities for the U.S. government.

Beginning with January 1997 data, EDD in cooperation with the USDA and through a grant from the U.S. Department of Labor has instituted new methods to estimate current agricultural employment, as well as earnings and hours worked based on sampling according to a probabilistic model of selection. EDD will continue to benchmark agricultural employment data yearly. As a result of changes in sampling and estimating procedures, farm employment data prior to January 1997 may not be strictly comparable to current estimates.

## Summary

Total Agricultural Employment for California declined from the prior month by 35,100 or 11.8% for the month of January 1999. This is compared to a drop of 17,600 jobs from December 1997 to January 1998. Decreases were registered in Production/Crops (-6,900 or 4.3%), Production/Livestock (-4,900 or 18.8%), and Agricultural Services (-23,300 or 20.9%). Over the year, January total Agricultural Employment declined by 37,500. Sub-freezing weather struck California in December 1998. January 1999 decreases are a result of this weather phenomena; the December 1998 agricultural employment estimates do not reflect the freeze because it occurred after our survey week.

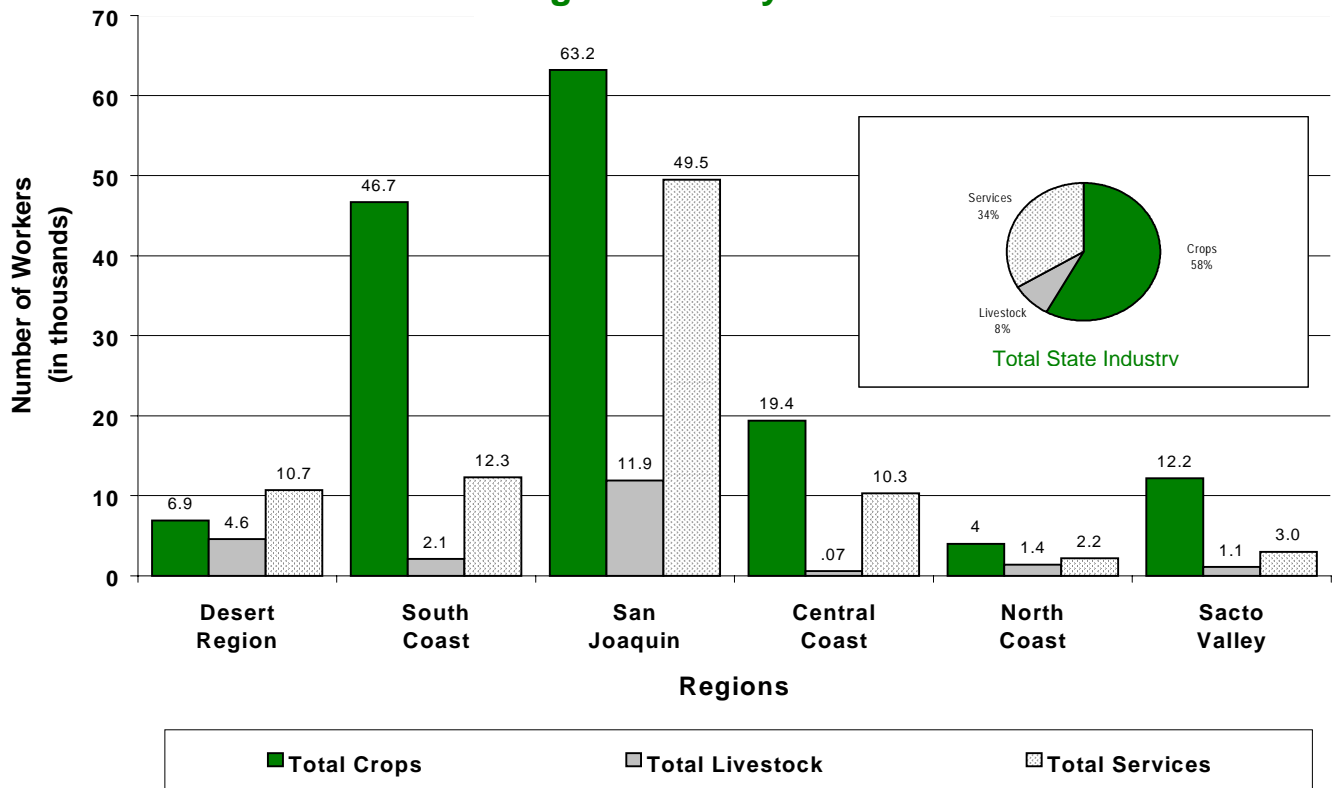
The December freeze primarily affected citrus crops statewide, with the orange and lemon crops heavily damaged. Navel oranges were being harvested when the freeze hit. These oranges are typically sold as holiday season stocking stuffers. The valencia oranges were still green, and aren't harvested until spring. During January, some fruit was picked for fresh market but most went to juice processors. Some wheat and sugar beet fields were also damaged. Lemons are harvested year round in the state. The San Joaquin Valley lemon crop was a total loss. However, most of the state's lemon crop is not in the San Joaquin Valley -- it's in Ventura County and other southern counties, where crop losses were lighter.

In the San Joaquin Valley Region, a decline of 22,500 jobs was seen from December 1998 to January 1999 compared to a drop of 15,300 jobs from December 1997 to January 1998. Although temperatures in some areas in the Desert Region dipped below freezing in December, it was not long enough to cause major crop damage. Good quality fruit was reported and citrus picking progressed normally. As identified by California Department of Food and Agriculture, counties experiencing some of the most significant losses include: Tulare (\$293.2 million); Kern (\$194.7 million); Fresno (\$90.7 million); Ventura (\$71.5 million); and Madera (\$14.9 million). As of March 31, 1999, 22 counties have reported some measure of loss.

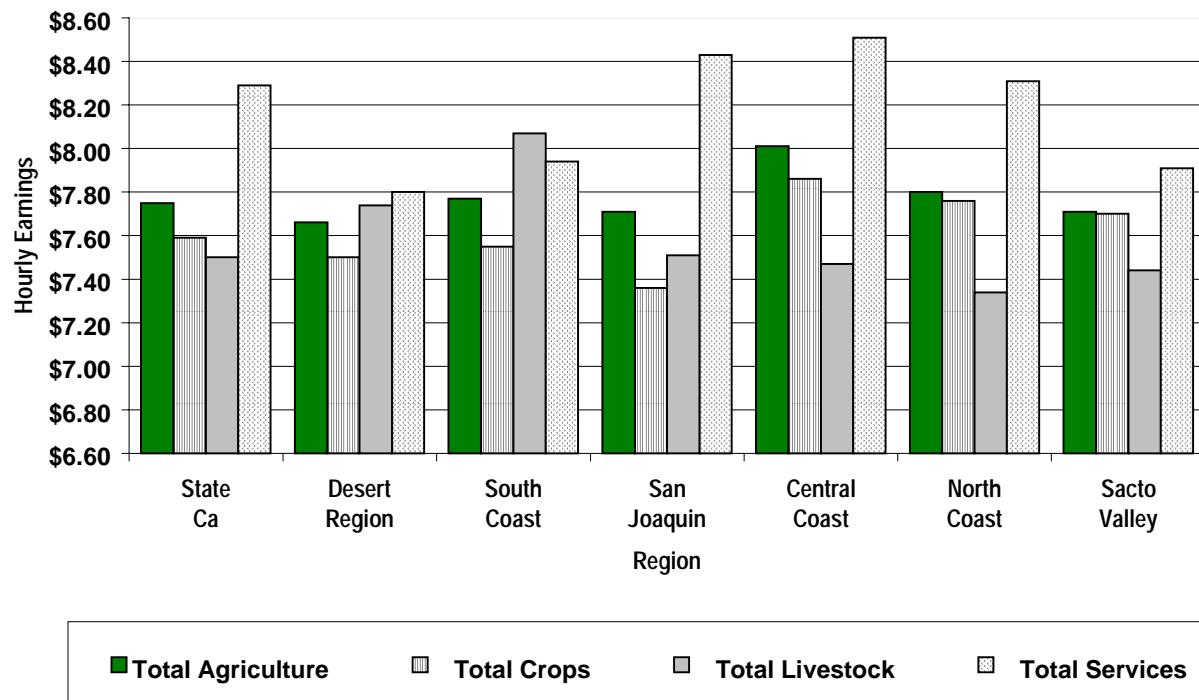
Notable losses to California's agricultural commodities include: oranges (\$512.1 million – the estimated loss to the Valencia orange crop alone is \$175.3 million); lemons, (\$80.7 million); avocados (\$40.6 million); strawberries (\$10.7 million) and nursery stock (\$7.7 million). In addition, combined losses to vegetables are estimated at more than \$19 million.

# Agricultural Summary Charts

## Wage and Salary Workers



## Average Hourly Earnings



# CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	<b>261.7</b>	<b>296.8</b>	<b>299.2</b>
<b>Total Agricultural Production/Crops</b>	<b>152.5</b>	<b>159.4</b>	<b>145.8</b>
Cash Grains	1.4	1.8	1.4
Rice	0.6	1.1	0.8
Other Cash Grains	0.8	0.7	0.6
Field Crops Except Grains	8.7	10.5	7.4
Cotton	2.9	6.5	4.1
Other Field Crops	5.8	4.0	3.3
Vegetables and Melons	34.1	29.2	19.3
Fruits and Tree Nuts	65.7	68.8	67.7
Berries	7.2	9.8	7.8
Grapes	25.9	30.2	32.2
Tree Nuts	8.4	7.0	6.8
Citrus Fruits	3.2	4.3	4.7
Deciduous Tree Fruit	7.1	9.0	9.4
Other Fruits & Nuts	13.9	8.5	6.8
Horticultural Specialties	28.3	28.2	33.9
Ornamental Floral & Nursery	27.4	26.7	28.7
Food Crops Grown Under Cover	0.9	1.5	5.2
General Farm Primarily Crop	14.3	20.9	16.1
<b>Total Agricultural Production/Livestock</b>	<b>21.1</b>	<b>26.0</b>	<b>25.1</b>
Beef Cattle Feed Lots	0.3	0.4	0.5
Beef Cattle Except Feed Lots	2.2	3.2	2.8
Dairy Farms	10.6	11.7	14.0
Chicken Eggs	2.3	3.8	2.3
Turkey & Turkey Eggs	1.1	0.9	0.8
Other Livestock	4.6	6.0	4.7
<b>Total Agricultural Services</b>	<b>88.1</b>	<b>111.4</b>	<b>128.3</b>
Soil Preparation Services	1.2	1.1	1.4
Crop Services	34.0	35.8	38.0
Plant Cultivate & Protection	4.4	4.0	5.2
Harvest Primarily by Machine	6.1	5.1	3.7
Preparation Services for Market	22.6	25.1	28.3
Cotton Ginning	0.9	1.6	0.8
Farm Labor & Management	52.9	74.5	88.9
Farm Labor Contractors	44.5	66.9	81.2
Farm Management Services	8.4	7.6	7.7

Average Hourly Earnings  
(In dollars per hour)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	<b>7.83</b>	<b>7.77</b>	<b>7.69</b>
<b>Total Agricultural Production/Crops</b>	<b>7.65</b>	<b>7.41</b>	<b>7.23</b>
Cash Grains	7.74	7.41	7.87
Rice	7.80	7.60	8.50
Other Cash Grains	7.68	7.22	7.23
Field Crops Except Grains	7.41	6.92	6.78
Cotton	7.36	6.74	6.75
Other Field Crops	7.45	7.10	6.80
Vegetables and Melons	7.93	7.93	7.72
Fruits and Tree Nuts	7.44	7.14	6.73
Berries	6.88	6.81	6.40
Grapes	7.65	7.39	7.20
Tree Nuts	7.91	7.41	6.79
Citrus Fruits	7.36	7.14	7.13
Deciduous Tree Fruit	7.66	6.99	6.36
Other Fruits & Nuts	7.20	7.09	6.52
Horticultural Specialties	8.00	8.20	7.72
Ornamental Floral & Nursery	7.75	8.06	7.15
Food Crops Grown Under Cover	8.25	8.34	8.29
General Farm Primarily Crop	7.40	6.89	6.59
<b>Total Agricultural Production/Livestock</b>	<b>7.50</b>	<b>7.55</b>	<b>7.66</b>
Beef Cattle Feed Lots	7.45	7.03	7.50
Beef Cattle Except Feed Lots	7.68	8.21	8.50
Dairy Farms	8.19	7.99	7.94
Chicken Eggs	6.63	6.83	6.75
Turkey & Turkey Eggs	7.02	6.98	7.80
Other Livestock	8.04	8.25	7.47
<b>Total Agricultural Services</b>	<b>8.35</b>	<b>8.35</b>	<b>8.17</b>
Soil Preparation Services	8.86	8.97	9.55
Crop Services	8.41	8.44	7.78
Plant Cultivate & Protection	8.54	8.61	7.42
Harvest Primarily by Machine	8.14	8.25	8.11
Preparation Services for Market	7.68	7.69	7.49
Cotton Ginning	9.26	9.22	8.10
Farm Labor & Management	7.78	7.65	7.18
Farm Labor Contractors	7.25	6.89	6.58
Farm Management Services	8.30	8.40	7.78

# CENTRAL COAST AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	<b>30.3</b>	<b>38.0</b>	<b>32.6</b>
<b>Total Agricultural Production/Crops</b>	<b>19.4</b>	<b>22.4</b>	<b>19.2</b>
Cash Grains	0.1	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.0	0.0
Field Crops Except Grains	0.7	0.1	0.1
Cotton	0.0	0.0	0.0
Other Field Crops	0.7	0.1	0.1
Vegetables and Melons	8.2	8.3	6.4
Fruits and Tree Nuts	3.1	3.6	3.6
Berries	2.5	2.0	1.7
Grapes	0.0	0.6	1.0
Tree Nuts	0.0	0.1	0.2
Citrus Fruits	0.0	0.0	0.2
Deciduous Tree Fruit	0.5	0.4	0.4
Other Fruits & Nuts	0.1	0.5	0.1
Horticultural Specialties	5.8	9.4	8.0
Ornamental Floral & Nursery	5.5	8.8	5.9
Food Crops Grown Under Cover	0.3	0.6	2.1
General Farm Primarily Crop	1.5	1.0	1.1
<b>Total Agricultural Production/Livestock</b>	<b>0.6</b>	<b>0.9</b>	<b>0.9</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.2	0.4	0.3
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.1	0.1	0.1
Other Livestock	0.3	0.4	0.3
<b>Total Agricultural Services</b>	<b>10.3</b>	<b>14.7</b>	<b>12.5</b>
Soil Preparation Services	0.2	0.3	0.6
Crop Services	7.2	7.0	5.4
Plant Cultivate & Protection	0.2	0.5	0.4
Harvest Primarily by Machine	2.7	1.7	0.2
Preparation Services for Market	4.3	4.8	4.8
Cotton Ginning	0.0	0.0	0.0
Farm Labor & Management	2.9	7.4	6.5
Farm Labor Contractors	2.2	5.7	5.4
Farm Management Services	0.7	1.7	1.1

## Average Hourly Earnings (In dollars per hour)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	<b>7.95</b>	<b>8.10</b>	<b>7.81</b>
<b>Total Agricultural Production/Crops</b>	<b>7.84</b>	<b>7.81</b>	<b>7.63</b>
Cash Grains	8.04	na	na
Rice	na	na	na
Other Cash Grains	8.04	na	na
Field Crops Except Grains	7.11	7.06	na
Cotton	na	na	na
Other Field Crops	7.11	7.06	na
Vegetables and Melons	8.70	8.70	8.40
Fruits and Tree Nuts	7.78	7.57	7.04
Berries	6.87	6.71	6.55
Grapes	na	7.24	6.75
Tree Nuts	7.56	7.78	7.25
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.65	8.06	6.85
Other Fruits & Nuts	8.02	8.08	7.80
Horticultural Specialties	8.26	8.46	7.98
Ornamental Floral & Nursery	8.03	8.42	7.20
Food Crops Grown Under Cover	8.49	8.50	8.75
General Farm Primarily Crop	7.18	7.26	7.10
<b>Total Agricultural Production/Livestock</b>	<b>7.46</b>	<b>7.78</b>	<b>7.65</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	7.48	8.05	na
Dairy Farms	na	na	na
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	6.96	6.89	na
Other Livestock	7.95	8.40	7.65
<b>Total Agricultural Services</b>	<b>8.55</b>	<b>8.71</b>	<b>8.16</b>
Soil Preparation Services	9.15	9.30	9.60
Crop Services	8.93	8.89	7.87
Plant Cultivate & Protection	8.71	8.69	7.45
Harvest Primarily by Machine	9.34	9.28	8.00
Preparation Services for Market	8.73	8.71	8.15
Cotton Ginning	na	na	na
Farm Labor & Management	7.57	7.93	7.00
Farm Labor Contractors	6.68	7.05	7.00
Farm Management Services	8.45	8.81	na

na = not available

# DESERT AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	22.2	27.0	36.4
<b>Total Agricultural Production/Crops</b>	6.9	12.9	11.8
Cash Grains	0.0	0.1	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.1	0.1
Field Crops Except Grains	0.8	1.1	1.3
Cotton	0.0	0.0	0.0
Other Field Crops	0.8	1.1	1.3
Vegetables and Melons	1.6	5.2	3.1
Fruits and Tree Nuts	1.3	3.1	4.1
Berries	0.0	0.0	0.0
Grapes	0.5	2.0	2.2
Tree Nuts	0.4	0.0	0.1
Citrus Fruits	0.0	1.1	0.8
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	0.4	0.0	0.9
Horticultural Specialties	1.4	1.4	2.9
Ornamental Floral & Nursery	1.4	1.4	1.1
Food Crops Grown Under Cover	0.0	0.0	1.8
General Farm Primarily Crop	1.8	2.0	0.3
<b>Total Agricultural Production/Livestock</b>	4.6	6.7	5.4
Beef Cattle Feed Lots	0.2	0.0	0.3
Beef Cattle Except Feed Lots	0.5	0.5	0.5
Dairy Farms	1.8	1.7	2.7
Chicken Eggs	1.2	3.4	1.2
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.9	1.1	0.7
<b>Total Agricultural Services</b>	10.7	7.4	19.2
Soil Preparation Services	0.3	0.1	0.2
Crop Services	3.9	3.4	6.1
Plant Cultivate & Protection	0.3	0.4	0.5
Harvest Primarily by Machine	1.3	1.0	1.6
Preparation Services for Market	2.3	2.0	4.0
Cotton Ginning	0.0	0.0	0.0
Farm Labor & Management	6.5	3.9	12.9
Farm Labor Contractors	5.3	3.4	12.3
Farm Management Services	1.2	0.5	0.6

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	7.75	7.66	7.23
<b>Total Agricultural Production/Crops</b>	7.45	7.19	6.85
Cash Grains	na	6.80	na
Rice	na	na	na
Other Cash Grains	na	6.80	na
Field Crops Except Grains	7.34	6.90	6.65
Cotton	na	na	na
Other Field Crops	7.34	6.90	6.65
Vegetables and Melons	7.37	7.37	7.37
Fruits and Tree Nuts	7.58	7.16	6.54
Berries	na	na	na
Grapes	8.08	7.14	6.55
Tree Nuts	8.27	na	na
Citrus Fruits	7.20	7.18	7.00
Deciduous Tree Fruit	na	na	6.40
Other Fruits & Nuts	6.78	na	6.20
Horticultural Specialties	7.51	7.61	7.58
Ornamental Floral & Nursery	7.51	7.61	7.15
Food Crops Grown Under Cover	na	na	8.00
General Farm Primarily Crop	7.45	7.30	6.10
<b>Total Agricultural Production/Livestock</b>	7.74	7.86	7.72
Beef Cattle Feed Lots	7.40	na	na
Beef Cattle Except Feed Lots	7.40	8.07	na
Dairy Farms	9.07	8.57	9.25
Chicken Eggs	6.88	6.95	6.75
Turkey & Turkey Eggs	na	na	na
Other Livestock	7.95	7.85	7.15
<b>Total Agricultural Services</b>	8.05	7.93	7.12
Soil Preparation Services	9.06	8.65	na
Crop Services	7.58	7.66	7.07
Plant Cultivate & Protection	8.64	8.62	6.50
Harvest Primarily by Machine	7.25	7.40	7.92
Preparation Services for Market	6.86	6.95	6.80
Cotton Ginning	na	na	na
Farm Labor & Management	7.50	7.50	7.18
Farm Labor Contractors	7.18	6.90	6.45
Farm Management Services	7.82	8.09	7.90

# NORTH COAST AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	7.6	12.7	11.0
<b>Total Agricultural Production/Crops</b>	4.0	9.5	8.3
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.0
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.0
Vegetables and Melons	0.5	1.4	0.2
Fruits and Tree Nuts	2.3	5.5	6.4
Berries	0.0	0.0	0.0
Grapes	2.0	5.0	5.5
Tree Nuts	0.0	0.1	0.0
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.3	0.3	0.8
Other Fruits & Nuts	0.0	0.1	0.1
Horticultural Specialties	1.1	2.5	1.5
Ornamental Floral & Nursery	0.9	2.1	1.4
Food Crops Grown Under Cover	0.2	0.4	0.1
General Farm Primarily Crop	0.1	0.1	0.2
<b>Total Agricultural Production/Livestock</b>	1.4	1.3	1.5
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.3	0.2	0.2
Dairy Farms	0.6	0.4	0.9
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.2	0.1	0.1
Other Livestock	0.3	0.6	0.3
<b>Total Agricultural Services</b>	2.2	1.9	1.2
Soil Preparation Services	0.2	0.2	0.0
Crop Services	0.1	0.1	0.1
Plant Cultivate & Protection	0.0	0.0	0.0
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.1	0.1	0.1
Cotton Ginning			
Farm Labor & Management	1.9	1.6	1.1
Farm Labor Contractors	0.8	0.4	0.2
Farm Management Services	1.1	1.2	0.9

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	7.78	7.76	7.56
<b>Total Agricultural Production/Crops</b>	7.81	7.59	7.04
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	na
Cotton	na	na	na
Other Field Crops	na	na	na
Vegetables and Melons	8.24	8.24	7.25
Fruits and Tree Nuts	7.35	7.40	7.40
Berries	na	na	na
Grapes	7.99	8.64	8.75
Tree Nuts	na	7.45	7.25
Citrus Fruits	na	na	na
Deciduous Tree Fruit	6.71	6.80	na
Other Fruits & Nuts	na	6.70	6.20
Horticultural Specialties	8.01	8.27	7.25
Ornamental Floral & Nursery	7.96	8.49	7.25
Food Crops Grown Under Cover	8.05	8.05	na
General Farm Primarily Crop	7.64	6.45	6.25
<b>Total Agricultural Production/Livestock</b>	7.25	7.70	7.45
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	7.53	8.25	na
Dairy Farms	6.79	7.04	6.56
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	7.10	7.14	7.80
Other Livestock	7.56	8.35	8.00
<b>Total Agricultural Services</b>	8.29	8.01	8.20
Soil Preparation Services	9.02	9.12	na
Crop Services	7.45	7.46	7.40
Plant Cultivate & Protection	na	na	na
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	7.45	7.46	7.40
Cotton Ginning	na	na	na
Farm Labor & Management	8.40	7.44	9.00
Farm Labor Contractors	7.63	6.61	na
Farm Management Services	9.16	8.27	9.00

# SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	60.9	51.9	48.4
<b>Total Agricultural Production/Crops</b>	46.7	33.6	35.2
Cash Grains	0.1	0.1	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.1	0.1
Field Crops Except Grains	0.8	0.4	0.2
Cotton	0.0	0.1	0.1
Other Field Crops	0.8	0.3	0.1
Vegetables and Melons	12.6	8.1	5.9
Fruits and Tree Nuts	16.0	13.1	11.0
Berries	4.7	6.8	5.9
Grapes	1.4	1.3	1.9
Tree Nuts	0.0	0.1	0.1
Citrus Fruits	1.1	1.4	1.7
Deciduous Tree Fruit	0.0	0.1	0.1
Other Fruits & Nuts	8.8	3.4	1.3
Horticultural Specialties	15.1	9.5	15.4
Ornamental Floral & Nursery	14.6	9.0	14.5
Food Crops Grown Under Cover	0.5	0.5	0.9
General Farm Primarily Crop	2.1	2.4	2.6
<b>Total Agricultural Production/Livestock</b>	1.9	2.8	1.8
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.1	0.3	0.2
Dairy Farms	0.1	0.6	0.2
Chicken Eggs	0.8	0.4	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.9	1.5	1.0
<b>Total Agricultural Services</b>	12.3	15.5	11.4
Soil Preparation Services	0.1	0.1	0.1
Crop Services	3.1	2.8	2.8
Plant Cultivate & Protection	0.3	0.1	0.4
Harvest Primarily by Machine	0.4	0.5	0.4
Preparation Services for Market	2.4	2.2	2.0
Cotton Ginning	0.0	0.0	0.0
Farm Labor & Management	9.1	12.6	8.5
Farm Labor Contractors	7.5	11.5	7.4
Farm Management Services	1.6	1.1	1.1

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	7.86	7.85	7.47
<b>Total Agricultural Production/Crops</b>	7.60	7.30	7.08
Cash Grains	7.67	7.05	na
Rice	na	na	na
Other Cash Grains	7.67	7.05	na
Field Crops Except Grains	7.51	6.87	na
Cotton	na	6.75	na
Other Field Crops	7.51	6.98	na
Vegetables and Melons	7.74	7.74	7.25
Fruits and Tree Nuts	7.38	7.11	6.65
Berries	6.89	6.85	6.25
Grapes	7.42	6.89	na
Tree Nuts	na	7.25	6.65
Citrus Fruits	7.55	7.56	7.20
Deciduous Tree Fruit	na	6.86	na
Other Fruits & Nuts	7.65	7.26	6.50
Horticultural Specialties	7.80	8.05	7.68
Ornamental Floral & Nursery	7.37	7.62	6.70
Food Crops Grown Under Cover	8.23	8.48	8.65
General Farm Primarily Crop	7.49	6.97	6.75
<b>Total Agricultural Production/Livestock</b>	8.07	8.12	8.05
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	7.94	8.26	na
Dairy Farms	8.89	8.63	na
Chicken Eggs	6.65	6.89	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.80	8.69	8.05
<b>Total Agricultural Services</b>	7.92	8.14	7.29
Soil Preparation Services	7.87	8.47	na
Crop Services	7.95	8.09	7.58
Plant Cultivate & Protection	8.35	8.47	7.50
Harvest Primarily by Machine	7.76	7.96	7.45
Preparation Services for Market	7.75	7.84	7.80
Cotton Ginning	na	na	na
Farm Labor & Management	7.95	7.85	7.00
Farm Labor Contractors	7.69	7.54	6.75
Farm Management Services	8.20	8.15	7.25



# SAN JOAQUIN VALLEY EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	124.6	147.1	152.6
<b>Total Agricultural Production/Crops</b>	63.2	66.9	58.8
Cash Grains	0.3	0.3	0.3
Rice	0.0	0.1	0.1
Other Cash Grains	0.3	0.2	0.2
Field Crops Except Grains	6.0	8.5	5.3
Cotton	2.9	6.4	4.0
Other Field Crops	3.1	2.1	1.3
Vegetables and Melons	9.9	3.5	3.1
Fruits and Tree Nuts	36.6	37.1	36.0
Berries	0.0	1.0	0.2
Grapes	21.4	20.1	20.9
Tree Nuts	5.2	4.1	4.5
Citrus Fruits	2.1	1.3	1.9
Deciduous Tree Fruit	5.1	7.1	5.2
Other Fruits & Nuts	2.8	3.5	3.3
Horticultural Specialties	2.9	4.0	3.7
Ornamental Floral & Nursery	2.9	4.0	3.6
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	7.5	13.5	10.4
<b>Total Agricultural Production/Livestock</b>	11.9	11.9	14.0
Beef Cattle Feed Lots	0.1	0.3	0.2
Beef Cattle Except Feed Lots	1.0	1.2	1.1
Dairy Farms	8.1	8.1	9.6
Chicken Eggs	0.3	0.1	0.6
Turkey & Turkey Eggs	0.7	0.4	0.6
Other Livestock	1.7	1.8	1.9
<b>Total Agricultural Services</b>	49.5	68.3	79.8
Soil Preparation Services	0.3	0.4	0.4
Crop Services	17.9	21.0	21.5
Plant Cultivate & Protection	3.1	2.7	3.5
Harvest Primarily by Machine	1.3	1.7	1.4
Preparation Services for Market	12.6	15.0	15.8
Cotton Ginning	0.9	1.6	0.8
Farm Labor & Management	31.3	46.9	57.9
Farm Labor Contractors	28.0	44.2	54.3
Farm Management Services	3.3	2.7	3.6

## Average Hourly Earnings (In dollars per hour)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	7.87	7.90	7.55
<b>Total Agricultural Production/Crops</b>	7.48	7.32	6.94
Cash Grains	7.47	7.50	7.20
Rice	na	7.55	na
Other Cash Grains	7.47	7.45	7.20
Field Crops Except Grains	7.47	6.89	6.85
Cotton	7.36	6.72	6.75
Other Field Crops	7.58	7.05	6.95
Vegetables and Melons	7.73	7.73	7.06
Fruits and Tree Nuts	7.17	6.91	6.54
Berries	na	6.86	na
Grapes	6.78	6.96	6.75
Tree Nuts	7.69	6.90	6.45
Citrus Fruits	7.33	7.06	7.20
Deciduous Tree Fruit	7.19	6.76	5.80
Other Fruits & Nuts	6.86	6.89	6.50
Horticultural Specialties	7.63	8.13	7.40
Ornamental Floral & Nursery	7.63	8.13	7.05
Food Crops Grown Under Cover	na	na	7.75
General Farm Primarily Crop	7.38	6.75	6.60
<b>Total Agricultural Production/Livestock</b>	7.51	7.62	7.63
Beef Cattle Feed Lots	7.50	7.50	7.50
Beef Cattle Except Feed Lots	7.91	8.57	8.50
Dairy Farms	8.30	8.02	8.00
Chicken Eggs	6.37	6.65	na
Turkey & Turkey Eggs	7.03	6.99	na
Other Livestock	7.94	7.98	6.50
<b>Total Agricultural Services</b>	8.63	8.77	8.09
Soil Preparation Services	9.49	9.75	9.50
Crop Services	8.36	8.43	8.10
Plant Cultivate & Protection	8.40	8.71	8.25
Harvest Primarily by Machine	8.32	8.46	9.03
Preparation Services for Market	7.45	7.34	7.00
Cotton Ginning	9.26	9.22	8.10
Farm Labor & Management	8.05	8.14	6.67
Farm Labor Contractors	7.27	6.94	6.38
Farm Management Services	8.83	9.34	6.95

na = not available

# SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	16.3	20.2	18.2
<b>Total Agricultural Production/Crops</b>	12.2	14.2	12.5
Cash Grains	0.9	1.3	0.9
Rice	0.6	1.0	0.7
Other Cash Grains	0.3	0.3	0.2
Field Crops Except Grains	0.4	0.5	0.5
Cotton	0.0	0.0	0.0
Other Field Crops	0.4	0.5	0.5
Vegetables and Melons	1.2	2.7	0.6
Fruits and Tree Nuts	6.3	6.4	6.6
Berries	0.0	0.0	0.0
Grapes	0.5	1.1	0.7
Tree Nuts	2.7	2.5	1.9
Citrus Fruits	0.0	0.6	0.1
Deciduous Tree Fruit	1.2	1.1	2.8
Other Fruits & Nuts	1.9	1.1	1.1
Horticultural Specialties	2.1	1.4	2.4
Ornamental Floral & Nursery	2.1	1.4	2.2
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	1.3	1.9	1.5
<b>Total Agricultural Production/Livestock</b>	1.1	2.4	1.5
Beef Cattle Feed Lots	0.0	0.1	0.0
Beef Cattle Except Feed Lots	0.1	0.6	0.5
Dairy Farms	0.4	0.8	0.5
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.1	0.3	0.0
Other Livestock	0.5	0.6	0.5
<b>Total Agricultural Services</b>	3.0	3.6	4.2
Soil Preparation Services	0.1	0.1	0.1
Crop Services	1.7	1.4	2.1
Plant Cultivate & Protection	0.5	0.2	0.4
Harvest Primarily by Machine	0.3	0.2	0.1
Preparation Services for Market	0.9	1.0	1.6
Cotton Ginning	0.0	0.0	0.0
Farm Labor & Management	1.2	2.1	2.0
Farm Labor Contractors	0.7	1.7	1.6
Farm Management Services	0.5	0.4	0.4

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Jan 1999	Dec 1998	Jan 1998
<b>Total Agriculture</b>	7.70	7.61	7.07
<b>Total Agricultural Production/Crops</b>	7.70	7.43	7.48
Cash Grains	7.66	7.61	7.88
Rice	7.80	7.65	8.50
Other Cash Grains	7.52	7.56	7.25
Field Crops Except Grains	7.71	7.50	na
Cotton	na	na	na
Other Field Crops	7.71	7.50	na
Vegetables and Melons	7.81	7.82	9.00
Fruits and Tree Nuts	7.76	6.96	6.22
Berries	na	na	na
Grapes	8.00	7.44	na
Tree Nuts	8.12	7.65	6.35
Citrus Fruits	na	6.77	na
Deciduous Tree Fruit	8.11	6.45	6.40
Other Fruits & Nuts	6.79	6.50	5.90
Horticultural Specialties	8.01	8.11	7.55
Ornamental Floral & Nursery	8.01	8.11	7.55
Food Crops Grown Under Cover	na	na	na
General Farm Primarily Crop	7.26	6.60	6.75
<b>Total Agricultural Production/Livestock</b>	7.43	7.49	6.70
Beef Cattle Feed Lots	na	6.55	na
Beef Cattle Except Feed Lots	7.33	8.06	na
Dairy Farms	7.91	7.68	na
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	6.98	6.91	na
Other Livestock	7.49	8.24	6.70
<b>Total Agricultural Services</b>	7.97	7.90	7.04
Soil Preparation Services	8.55	8.51	na
Crop Services	8.16	8.18	7.77
Plant Cultivate & Protection	8.61	8.55	7.40
Harvest Primarily by Machine	8.01	8.17	8.15
Preparation Services for Market	7.85	7.83	7.76
Cotton Ginning	na	na	na
Farm Labor & Management	7.21	7.02	6.30
Farm Labor Contractors	7.07	6.29	6.30
Farm Management Services	7.35	7.75	na

## DATA NOTES

### Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agriculture Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be statistically representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12<sup>th</sup> calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

### Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Where data cannot be estimated because of inadequate sample reporting, the letters "**na**" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries which contract with the farm labor contractors.
- Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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